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AI Lab (European ARTificial Intelligence Lab)

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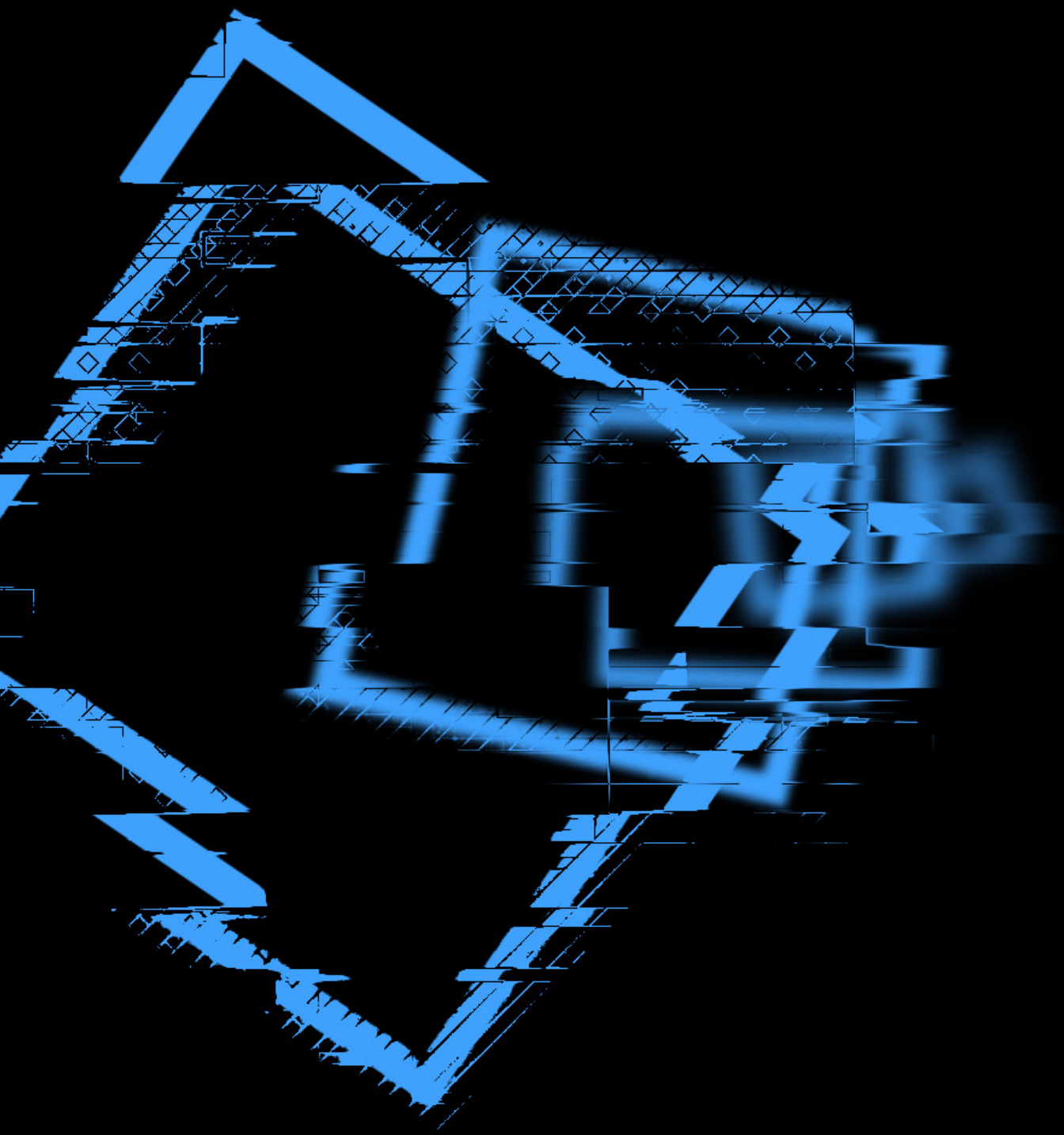


Experiential AI

THEME STATEMENT

AI Lab – Residency Program European ARTificial Intelligence Lab

Experiential AI Artist Residency



AI Lab (European ARTificial Intelligence Lab) is led and organised by Ars Electronica in collaboration with 13 partners across Europe, including Edinburgh. Experiential AI at Edinburgh Futures Institute is the scientific partner for the AI Lab Lighthouse Residency in 2019/20.

**The theme for the Artist Residency is:
Entanglements – fair, moral and transparent AI.**



The residency is a fully funded opportunity for an artist, designer or artists' collective to create new dimensions in their artistic practice through their encounters with the world of AI.

Edinburgh is the world's foremost festival city, and has been a centre for AI research since the early 1960s. These two strengths combine to create a fertile environment to experiment in art and AI.

Fairness, morality and transparency are challenged by entanglements with autonomous systems that are in many ways unintelligible to humans. At the same time, increasing numbers of artists are today exploring artificial intelligence (AI), machine learning and robotics, as both subject and tool.

Through this residency, the Experiential AI group at Edinburgh Futures Institute will support the successful artist, designer or artists' collective to explore the fairness, morality and transparency of AI systems, topics that are already under investigation by AI scientists.

What values would we like AI systems to embody? What biases might they infer from interactions with us? How can we make AI systems more transparent so we can understand and critique their reasoning? Should we strive for a shared computational framework enabling machines to reason about their actions and ethical implications? On what basis might we recommend social domains that are not suited to automated decision-making.

Art and creativity can contribute something vital and distinct. Art can create new narratives and explore new configurations of humans and algorithms. Art is a way to engage in values and cultural bias as dynamic vectors rather than static constraints. Art can help us to address the intelligibility and ethics of AI in an experiential way.

The residency is an opportunity for the artist(s) to experiment with new concepts, data and technologies and engage both AI practitioners and publics in envisioning futures for ethical and responsible AI. Their creative experiments can allow audiences to explore future scenarios and experience various aspects of the moral dimension, making algorithmic mechanisms vividly apparent.

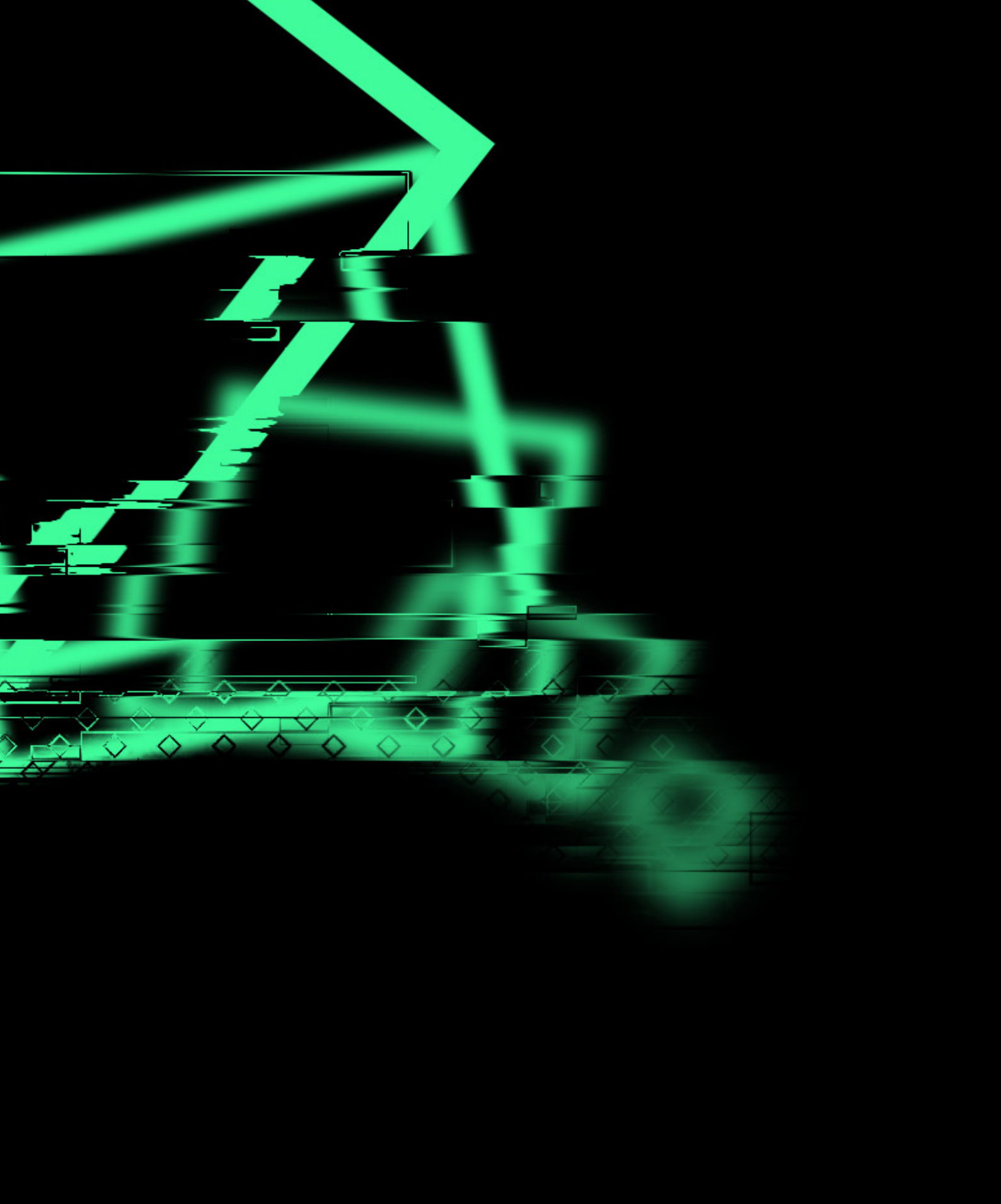
The successful artist(s) may choose to look at data harvesting, algorithms and the outcomes of their application, human-robot interaction, or how a system is understood. The residency might create experiences around social impacts and consequences of technology, or give audiences direct experience of philosophical and computational principles. The artist(s) may decide to challenge what the algorithms are and how they are used.

Experiential AI is a new programme on art, ethics and artificial intelligence at Edinburgh Futures Institute, Bayes Centre and Heriot-Watt Robotarium. It aims to support the creation of artistic works using machine learning algorithms and robotics, and to inspire new concepts and paradigms on ethical and responsible AI.

The residency theme is described in an Editorial by the Experiential AI group in the October issue of Leonardo (10.1162/LEON_a_01795).

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Experiential **AI**